## **Amendments to the Claims**

The following listing of claims replaces all prior amendments and listings of claims.

- 1. and 2. (Canceled)
- 3. (Currently Amended) The electrical brush holder according to Claim 2 24, wherein said fluidic medium comprises a the gas and [[a]] the liquid metal are in pressure-transmitting contact with each other via at least one flexible membrane.
- 4. (Original) The electrical brush holder according to Claim 3, wherein said pressurized gas is pressurized from a source external to the volume.
- 5. (Original) The electrical brush holder according to Claim 3, wherein said pressurized gas is entirely confined within the volume.
- 6. (Currently Amended) The electrical brush holder according to Claim [[1]] <u>24</u>, wherein the flexible cable is at least partly located outside of the volume.
- 7. (Previously Presented) The electrical brush holder according to Claim 6, wherein the flexible cable is completely located inside the volume.
- 8. (Currently Amended) The electrical brush holder according to Claim 7, wherein said plurality of metal filaments fibers comprise a diameter of less than 51  $\mu$ m.
- 9. (Currently Amended) The electrical brush holder according to Claim 7, wherein said plurality of metal filaments fibers each have a diameter of less than 41 μm.
- 10. (Currently Amended) The electrical brush holder according to Claim 7, wherein said plurality of metal filaments fibers each have a diameter of less than 11  $\mu$ m.
- 11. (Currently Amended) The electrical brush holder according to Claim 7, wherein said electrical cable comprises a volume of the liquid metal confined in a flexible tubing.
- 12. (Currently Amended) The electrical brush holder according to Claim [[1]] <u>24</u>, wherein the first <u>plate wall</u> is fastened to the current conducting element via at least one of <del>1)</del>

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a screw,  $\frac{2}{3}$  a dove-tail,  $\frac{3}{3}$  solder, [[4]] cement,  $\frac{5}{3}$  glue,  $\frac{6}{3}$  a magnetic force,  $\frac{7}{3}$  a suction eup force, and  $\frac{8}{3}$  a bayonet closure.

- 13. (Currently Amended) The electrical brush holder according to Claim [[1]] 24, wherein at least part of the sidewall comprises at least one of 1) spiral tubing, 2) telescoping tubing, 3) accordion pleated bellows, and [[4)]] flexible plastic sheet material.
- 14. (Currently Amended) The An electrical brush holder according to Claim 2, further for applying a mechanical force to an electrical fiber or foil brush and for establishing electrical contact between the electrical brush sliding against a substrate, and a current conducting element, comprising:

a first wall fastened to the current conducting element;

a second wall releasably fastened to the brush;

a sidewall lengthwise extendable in an axis direction of the brush and cooperating with the first and second walls to form a volume defined by the first wall, the second wall and the sidewall, the brush holder configured to apply an approximately constant pressure to the brush;

a flexible cable comprising of a plurality of ultra-fine metal fibers configured to conduct current between the current conducting element and the brush;

a fluidic medium contained in the volume, the fluidic medium comprising at least one of a liquid metal and a pressurized gas; and

support rods configured to support at least part of the sidewall.

- 15. (Currently Amended) The electrical brush holder according to Claim [[1]] 24, wherein the second plate wall comprises a wedge-shape in accordance with an intended axis direction of the brush.
- 16. (Currently Amended) The electrical brush holder according to Claim [[1]] 24, wherein the first plate wall is angled relative to the sidewall.

17. (Currently Amended) The electrical brush holder according to Claim [[1]] <u>24</u>, further comprising:

rigid tubing surrounding the sidewall and configured to guide the second <del>plate</del> <u>wall</u> in the axis direction of the brush.

18. (Currently Amended) The electrical brush holder according to Claim [[1]] 24, further comprising:

a spring disposed between said first and second <del>plates</del> walls and configured to apply a mechanical force to the brush.

- 19. (Original) The electrical brush holder according to Claim 7, wherein the cable comprises electrical connectors configured to connect the cable to an electrical device.
  - 20. (Canceled)
- 21. (Currently Amended) The electrical brush holder according to Claim [[1]] <u>24</u>, wherein the brush is releasably fastened to the second wall via at least one of <del>1)</del> a screw, <del>2)</del> a dove-tail, <del>3)</del> solder, [[4)]] cement, <del>5)</del> glue, <del>6)</del> a magnetic force, <del>7)</del> a suction <del>eup</del> force, and <del>8)</del> a bayonet closure.
- 22. (Currently Amended) The An electrical brush holder according to Claim 2 for applying a mechanical force to an electrical fiber or foil brush and for establishing electrical contact between the electrical brush sliding against a substrate, and a current conducting element, comprising:

a first wall fastened to the current conducting element;

a second wall releasably fastened to the brush;

a sidewall lengthwise extendable in an axis direction of the brush and cooperating with the first and second walls to form a volume defined by the first wall, the second wall and the sidewall, the brush holder configured to apply an approximately constant pressure to the brush;

a flexible cable comprising of a plurality of ultra-fine metal fibers configured to conduct current between the current conducting element and the brush; and

a fluidic medium contained in the volume, the fluidic medium comprising a liquid metal and a pressurized gas, wherein the fluidic medium comprises a the pressurized gas contained in a plurality of flexible membranes surrounded by [[a]] the liquid metal.

23. (Currently Amended) The An electrical brush holder according to Claim 2 for applying a mechanical force to an electrical fiber or foil brush and for establishing electrical contact between the electrical brush sliding against a substrate, and a current conducting element, comprising:

a first wall fastened to the current conducting element;

a second wall releasably fastened to the brush;

a sidewall lengthwise extendable in an axis direction of the brush and cooperating with the first and second walls to form a volume defined by the first wall, the second wall and the sidewall, the brush holder configured to apply an approximately constant pressure to the brush;

a flexible cable comprising of a plurality of ultra-fine metal fibers configured to conduct current between the current conducting element and the brush; and

a fluidic medium contained in the volume, the fluidic medium comprising a liquid metal and a pressurized gas, wherein the fluidic medium comprises a the pressurized gas contained in a donut-shaped flexible membrane surrounded by [[a]] the liquid metal.

24. (Currently Amended) The An electrical brush holder according to Claim 2 for applying a mechanical force to an electrical fiber or foil brush and for establishing electrical contact between the electrical brush sliding against a substrate, and a current conducting element, comprising:

a first wall fastened to the current conducting element;

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a second wall releasably fastened to the brush;

a sidewall lengthwise extendable in an axis direction of the brush and cooperating with the first and second walls to form a volume defined by the first wall, the second wall and the sidewall, the brush holder configured to apply an approximately constant pressure to the brush;

a flexible cable comprising of a plurality of ultra-fine metal fibers configured to conduct current between the current conducting element and the brush; and

a fluidic medium contained in the volume, the fluidic medium comprising a liquid metal and a pressurized gas, wherein the fluidic medium comprises a the pressurized gas contained in a single flexible membrane surrounded by [[a]] the liquid metal.

25. (Currently Amended) The electrical brush holder according to Claim [[1]] <u>24</u>, further comprising:

at least a third plate wall fastened to at least another brush.

26.-31. (Canceled)